

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Orhan Soykan; Maura G. Donovan Serial No.: To be assigned  
Filed: Herewith Docket: P-7835.11 C3  
Title: Method and System for Myocardial Infarction Repair

**CERTIFICATE OF MAILING**

**DATE OF DEPOSIT**

*4-14-04*

I hereby certify that this paper is being deposited with the United States Postal Service, in an envelope address "EXPRESS Error! Reference source not found. addressed to Mail Stop Box Patent Application, P.O. Box 1450, Commissioner of Patents, Alexandria, VA 22313-1450, on this April 14, 2004.

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**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Consideration of each of the documents listed on the attached Form 1449 is respectfully requested. Pursuant to the provisions of M.P.E.P. § 609, Applicant further requests that a copy of the Form 1449, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

The Examiner's attention is brought to Applicants' filed U.S. Patent Application USSN 60,064,703 filed November 7, 1997; 09/145,743 filed September 2, 1998; 09/654,184 filed September 1, 2000; and 09/706,531 filed November 3, 2000 and the art cited therein.

Respectfully submitted,

Applicants

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<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty Docket No:</b>	P7835.01 C1	<b>Serial No.:</b>	09/654,185
	<b>Applicant(s): Soykan et al.</b>			
	<b>Filing Date:</b>	24-Oct-03	<b>Group:</b>	3762

**US PATENT DOCUMENTS**

Examiner Initial	+/*	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
*		US4256115A	17-Mar-81	Bilitch, Michael	128	419	14-Jan-80
*		US4379459	12-Apr-83	Stein, Marc T.	128	419 PG	09-Apr-81
*		US4411268	25-Oct-83	Cox, James A.	128	421	10-Feb-82
*		US4476868	16-Oct-84	Thompson, David L.	128	419 PG	08-Sep-80
*		US4556063	03-Dec-85	Thompson et al.	128	419 PT	07-Dec-84
*		US4791911	20-Dec-88	Magovern, George J.	600	36	02-Jun-86
*		US4821723	18-Apr-89	Baker, Ross G., et al.	128	419 D	27-Feb-87
*		US5030204	09-Jul-91	Badger, Rodney S. et al.	604	95	06-Feb-90
*		US5060660	29-Oct-91	Gambale et al.	128	772	28-Feb-90
*		US5069680	03-Dec-91	Grandjean, Pierre-Andre	623	3	06-Dec-89
*		US5104393	14-Apr-92	Isner, Jeffrey, et al.	606	15	02-Nov-90
*		US5131388	21-Jul-92	Pless, Benjamin D.	128	419 D	14-Mar-91
*		US5144949	08-Sep-92	Olson, Walter H.	128	419 PG	15-Mar-91
*		US5158078	27-Oct-92	Bennett, Tommy D., et al.	128	419 PG	14-Aug-90
*		US5205810	27-Apr-93	Guiraudon, Gerard M., et al.	600	16	15-Oct-90
*		US5207218	04-May-93	Carpentier, Alain et al.	128	419 PG	27-Feb-91
*		US5306293A	26-Apr-94	Zacouto, Fred	607	17	21-Nov-91
*		US5312453	17-May-94	Shelton, Michael B. et al.	607	19	11-May-92
*		US5314430	24-May-94	Bardy, Gust H.	607	5	24-Jun-93
*		US5354316	11-Oct-94	Keimel, John G.	607	15	29-Jan-93
*		US5510077	23-Apr-96	Dinh, Thomas Q. et al.	264	485	15-Sep-94
*		US5545186	13-Aug-96	Olson, Walter H. et al.	607	14	30-Mar-95
*		US5632716A	27-May-97	Bui, Tuan, et al.	600	16	20-Jun-96
*		US5658237	19-Aug-97	Francishelli, David	600	16	17-Aug-95
*		US5697884	16-Dec-97	Francishelli, David et al.	600	17	17-Aug-95
*		US6151525A	21-Nov-00	Sokyan, Orhan, et al.	607	50	02-Sep-98

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	+/*	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
*		EP0487429A1	27-May-92	Zacouto, Fred	A61N	1/08	22-Nov-91
*		EP0487429B1	27-May-92	Zacouto, Fred	A61N	1/08	22-Nov-91
*		EP0547733A2	23-Jun-93	Collins, Kenneth A.	A61N	1/36	23-Jul-92
*		EP0547733B1	23-Jun-93	Collins, Kenneth A.	A61N	1/36	23-Jul-92

**EXAMINER****Date Considered**

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\* - Reference Previously cited and provided to the Examiner.

+ - New Reference not previously cited (available copies included).

	*	EP0627237A1	07-Dec-94	Trabucco, Hector O., et al.	A61N	1/362	25-May-93
	*	WO02/20088A	14-Mar-02	Donovan, Maura G., et al.	A61N	1/36	03-Nov-00
	*	WO93/04724	18-Mar-93	Rissman, John A.	A61M 25	01	10-Jun-92
	*	WO94/11506	26-May-94	Leiden, Jeffrey M., et al.	A61K 48	00	16-Nov-93
	*	WO94/21237A	29-Sep-94	Levy, Robert J., et al.	A61K	9/22	15-Mar-94
	*	WO95/05781	02-Mar-95	Mulier, Peter M. J., et al.	A61B 17	39	25-Jul-94
	*	WO97/09088	13-Mar-97	Elsberry, Dennis C. et al.	A61N 1	39	05-Sep-96
	*	WO99/66036	23-Dec-99	Mickle, Donald	C12N	15/00	18-Jun-99

## OTHER DOCUMENTS (Including Authors, title, Date, Pertinent Papers, etc.)

Examiner Initial	+/*	Document Cite
	*	Aczadi, Gyula et al., The New Biologist, Vol. 3, No. 1, 71-81, 1991
	*	Bansal et al., Journal of Clinical Endocrinology and Metabolism, Vol. 74, No. 2, 1992
	*	Barr et al., Gene Therapy, Vol 1, No. 1, 51-58, 1994
	*	Blaese et al., Science, Vol. 270, Oct. 20, 1995
	*	Bordignon et al., Science, Vol. 270, Oct. 20, 1995
	*	Bouaziz et al., Biomaterials 18 (1997) pp. 107-112, 1996 Elsevier Science Ltd. Great Britain
	*	Bouaziz et al., Biomaterials 1995, Vol. 16, No. 9
	*	Bugiardini et al., American College of Cardiology, JAAC Vol. 25, No. 3, March 1, 1995, pp. 597-604
	*	Chiu, Ray C.-J., et al., Ann. Thoracic Surgery, 1995, Vol. 60, pp. 12-18
	*	Chowdhury, Science, Vol. 254; December 1991
	*	Dichek et al., Basic Science Reports, 1996 American Heart Association, Inc.
	*	Dunn et al., Basic Science Reports, 1960 American Heart Association, Inc.
	*	Ekhteraei et al., Jobs Research Laboratories, Dept. of Surgery and the Univ of Michigan, Ann Arbor, 1995, The Society for Vascular Surgery and International Society for Cardiovascular Surgery, North American Chapter
	*	Fletcher, J.G., et al., Pathophysiology of Heart Disease, Chap. 7, pp. 113-129
	*	French, Brent A., Ph., et al., Circulation, 90, 2414-2424, 1994
	*	Gal, Dov. et al., Laboratory Investigation., Vol. 68, No. 1, 18-25, 1993
	*	Gillis et al., W.B. Saunders Company, Ltd., 1996
	*	Grossman et al., Nature Genetics, Vol. 6, April 1994
	*	Innis, Michael A., et al., eds. PCR Strategies, 1995, Academic Press, New York
	*	Johns, David C., et al., Journal of Clinical Investigation., Vol. 96, 1152-1158, 1995
	*	Kao, Race L., et al., Landes Bioscience, 1997, Chapters 5 & 8
	*	Klug, Michael G., et al., American Journal of Physiology, Vol. 269, No. 6, part 2 of 3 parts, pp. 1913-1921

<b>EXAMINER</b>	<b>Date Considered</b>
<p>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> <p>* - Reference Previously cited and provided to the Examiner. + - New Reference not previously cited (available copies included).</p>	

*	Koh, Gou Young, et al., Journal of Clinical Investigation, Vol. 96, Oct. 1995, pp. 2034-2042
*	Kohn et al., Nature Medicine, Vol. 10, Oct. 1995
*	Leor, Jonathan, et al., J. of Molecular and Cellular Cardiology, Vol. 28, No. 10, Oct. 1996, pp. 2057-2067
*	Levin et al., J. of Biological Chemistry, 1989 by the American Society for Biochemistry and Molecular Biology, Inc., V. 264, No. 27, issue of Sept 25, 1989. Pp. 16030-16036
*	Li, Ren-Ke et al., Annals of Thoracic Surgery, 60, 654-661, 1996
*	Mesri , Enrique A., et al., Circulation Research, 1995; Vol 76, pp 161-167
*	Meyle, J., et al., J. of Biomedical Materials Research, 27, 1553-1557, 1993
*	Murry, Charles E., et al., J. Clin. Invest. , 98, 2209-2217, 1996
*	Murry, Charles E., et al., J. Clin. Invest. 98, 2512-2523, 1996
*	Nabel, Science, Vol. 244, June 1989
*	Nilius et al., The Rockefeller University Press, V. 103, May 1994, pp. 787-805
*	Olson,, Remington's Pharmaceutical Sciences, (standard reference text) Vol. II
*	Parmacek et al., J. Biological Chemistry, Vol 265, No. 26, 15970-15976, 1990
*	Parmacek, Michael S., et al., Molecular and Cellular Biology, Vol. 12, No. 5, May 1992 pp. 1967-1976
*	Pashos, C. I., et al., JAMA, 1993, Vol. 270, p. 1832
*	Robinson, Shawn W., et al., Cell Transplantation, 5, 77-91, 1996
*	Robinson, Shawn W., et al., Cellular Cardiomyoplasty: myocardial repair with cell implantation, eds., Chapter 5, pp 81-107-
*	Ryan et al., American College of Cardiology and American Heart Association, Inc., Published by Elsevier Science, Inc., JACC V. 28, N. 5, Nov 1, 1996, pp. 1328-1348
*	Sambrook, J., et al., Cold Spring Harbor Laboratory Press, A laboratory manual, 1989
*	Santell et al., J. of Biological Chemistry, V. 263, No. 32, Nov. 15, 1988, pp 16802-16808
*	Stokes, Kenneth, USPN Appl. 08/682,277, filed July 17, 1996 (P-3569 CPA)
*	Stokes, Kenneth et al., USPN 08/682,433, filed July 17, 1996 (P3586)
*	Symes, James F., M.D., Angiogenesis in Health and Disease, July, 1997, XIX Annual Meeting of ISHR-American Section
*	Tam, Stanley, K.C., et al., Journal Thoracic Cardiovascular Surgery, 1995, Vol. 109, pp. 918-924
*	Taylor, Doris A., et al., Proceedings of the Association of American Physicians, Vol. 109, NO. 3, pp. 245-253, 1997
*	Vlay, S., et al., American Heart Journal, jan. 1994, p. 235
*	von Recum, A.F., et al., Biomaterials, 13, 1059-1069, 1992
*	von Recum, A.F., et al., Biomaterials, 12, 385-389, May 1991
*	von Recumin et al., J. of Biomedical Materials Research, 27, 1553-1557, 1993
*	Williams, et al., Nature, Vol. 310, Aug. 9, 1984

EXAMINER	Date Considered
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	*	Y. van den Eijnden-Schrauwen et al., The American Society of Hematology, Blood, V. 85, No. 12, June 15, 1995, pp. 3510-3517
	*	Yanagisawa et al., J. of Cardiovascular Pharmacology, Vol. 13, Suppl. 5. Pp. S13-S17, 1989, Raven Press Ltd., N.Y.

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<b>Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * - Reference Previously cited and provided to the Examiner. + - New Reference not previously cited (available copies included).	

Based on Form PTO-FB-A820  
(Also form PTO-1449)

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